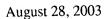


HUNTON & WILLIAMS LLP 1900 K STREET, N.W. WASHINGTON, D.C. 20006-1109

TEL 202 • 955 • 1500 FAX 202 • 778 • 2201

DAVID H. MILLIGAN
DIRECT DIAL: 202 • 955 • 1687
EMAIL: dmilligan@hunton.com



UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket Number: First Named Inventor: Title: PROMOTERS OF			Kenju MIURA, et al. F THE GROWTH AND/OR DIFFERENTIATION OF IC STEM CELLS AND/OR HEMATOPOIETIC PROGENITOR						
	HEMATO	POIETIC	STEM CEI	LLS AND/O	R HEMATOP	OIETIC PRO)GENITOR		
TO:	Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450								
Sir:									
Attacl	ned are the following	lowing for	filing with t	he U.S. Pate	nt and Tradema	rk Office:			
)									
1. 2. 3.	Smal	ment Encl	atus Claime osed I in Prior Ap		dependent Invertigation of the dependent Invertigation of the dependent of	oncern ization r and Desired	g Abstract)		
2.	Smal	I Entity St ment Encl ment Filed	atus Claime osed l in Prior Ap - Tota	Sr Splication; St I Pages:	dependent Invernall Business Con-Profit Organ atus Still Prope	oncern ization r and Desired	g Abstract)		
2.	Smal	ement Encluderment Filed	osed I in Prior Ap CLA	Sr No	dependent Invernall Business Con-Profit Organ atus Still Prope	oncern ization r and Desired	g Abstract)		
2.	Smal	I Entity St ment Encl ment Filed	atus Claime osed l in Prior Ap - Tota	Sr Splication; St I Pages:	dependent Invernall Business Con-Profit Organ atus Still Prope	oncern ization r and Desired (Includin	g Abstract) Amount		
3.	Smal	ement Encludement Filed	osed I in Prior Ap CLA Basic Fee	Sripplication; Store I Pages:	dependent Invernall Business Con-Profit Organ atus Still Prope	oncern ization r and Desired (Includin			
 Total (State State State	ement Encludement Filed	osed I in Prior Ap CLA Basic Fee Claims	Sripplication; Store I Pages:	dependent Invernall Business Con-Profit Organ atus Still Prope 44 D Ra Large Entity	oncern ization r and Desired (Includin ate Small Entity	Amount		
2. 3. Total (Independent)	State State State Spec	ement Encludement Filed Claims Filed 20 5	osed d in Prior Ap Tota CLA Basic Fee Claims 20 3	Sr. No polication; St. I Pages: AIMS AS FILE Extra	dependent Invernall Business Con-Profit Organ atus Still Prope 44 D Ra Large Entity \$ 18.00	oncern ization r and Desired (Includin ate Small Entity \$ 9.00	Amount \$0.00		
2. Total (Indeper	State State State State Spec	ement Encludement Filed Claims Filed 20 5	osed d in Prior Ap Tota CLA Basic Fee Claims 20 3	Sr. No polication; St. I Pages: AIMS AS FILE Extra	dependent Invental Business Con-Profit Organ atus Still Prope 44 D Ra Large Entity \$ 18.00 \$ 84.00	oncern ization r and Desired (Includin ate Small Entity \$ 9.00 \$ 42.00	Amount \$0.00 \$168.00		
3. Total Gindepo	State State State State Spece	ement Enclument Filed Claims Filed 20 5 ultiple Depe	osed d in Prior Ap Tota CLA Basic Fee Claims 20 3	Sr. No polication; St. I Pages: AIMS AS FILE Extra	dependent Invental Business Con-Profit Organ atus Still Prope 44 D Ra Large Entity \$ 18.00 \$ 84.00 \$ 280.00	oncern ization r and Desired (Includin ate Small Entity \$ 9.00 \$ 42.00 \$ 140.00	Amount \$0.00 \$168.00 \$0.00		
3. Total Gindeper First F BASI	State State State State Spec	ement Enclument Filed Claims Filed 20 5 ultiple Depe	osed d in Prior Ap Tota CLA Basic Fee Claims 20 3	Sr. No polication; St. I Pages: AIMS AS FILE Extra	dependent Invental Business Con-Profit Organ atus Still Prope 44 D Ra Large Entity \$ 18.00 \$ 84.00 \$ 280.00	oncern ization r and Desired (Includin ate Small Entity \$ 9.00 \$ 42.00 \$ 140.00	Amount \$0.00 \$168.00 \$0.00 \$750.00		

ATLANTA AUSTIN BANGKOK BRUSSELS CHARLOTTE DALLAS HONG KONG KNOXVILLE LONDON MCLEAN MIAMI NEW YORK NORFOLK RALEIGH RICHMOND SINGAPORE WASHINGTON WWW.hunton.com



August 28, 2003 Page 2

	Oath or	. Daalor	ration - Total Pages: 3						
5.	Oath of		Newly executed (original or copy)						
	a.	\boxtimes	New (unexecuted)						
	b.		Copy from a prior application (for continuation/divisional with Box 18 completed)						
		i.	DELETION OF INVENTOR(s): Signed statement attached deleting inventor(s) named in prior application.						
6.		Appli	ication Data Sheet						
7.		(Apr	ROM or CD-R in duplicate, large table or Microfiche Computer Program pendix)						
8.	\boxtimes		Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)						
		a.	Computer Readable Form (CRF)						
		b.	Specification Sequence Listing on:						
			i. CD-ROM or CD-R (two copies); or						
			ii. Paper Copy (identical to computer copy)						
		c.	Statement verifying identity of above copy						
9.	\boxtimes	Ass	Signee/Applicant: DAIICHI SUNTORY PHARMA CO., LTD. 5-7-2, Kojimachi, Chiyoda-ku, Tokyo 102-0083 JAPAN						
			DAIICHI SUNTORY BIOMEDICAL RESEARCH, LTD. 1-1, Wakayamadai, Shimamoto-cho, Mishima-gun, Osaka, 618-8503 JAPAN						



August 28, 2003 Page 3

		Assignee of Record in Prior Application No:							
		<u>-</u>							
		recorded on at Reel, Frame							
10.		37 C.F.R. 3.73(b) Statement							
11.		English Translation Document (if applicable)							
12.		Information Disclosure Statement with PTO-1449 and References							
		Copies of Information Disclosure Statement Citations							
13.		Preliminary Amendment							
14.	\boxtimes	Return Receipt Postcard							
15.	\boxtimes	Priority is Claimed as Follows: PCT/JP02/13862, filed on December 27, 2002							
		Japanese Application No. 400330/2001, filed on December 28, 2001							
		If Foreign Priority is Claimed, Certified Copy of the Above Priority Document(s) is Submitted Herewith							
16.		Nonpublication Request under 35 U.S.C. § 1222(b)(2)(B)(i). Applicant must attach Form PTO/SB/35 or its equivalent.							
17.		Other:							
18.	\boxtimes	Continuation Divisional Continuation-in-Part of Prior Application No.: PCT/JP02/13862 filed December 27, 2002							
		Prior application information: Examiner Group Art Unit							
		Incorporation By Reference (useable if Box 5b is marked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 5b, is considered as being part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon							



August 28, 2003 Page 4

		when a portion has been inadvertently omitted from the submitted application papers.								
		Complete Application Based on Provisional Application No.:								
19.	Dleace	anddraes all carrespondence to								
19.	1 icasc	Please address all correspondence to:								
	\boxtimes	CUSTOMER NUMBER 21967								
		Robert M. Schulman Intellectual Property Department Hunton & Williams LLP 1900 K Street, N.W. Suite 1200 Washington, DC 20006-1109								
20.	\boxtimes	A new power of attorney or authorization of agent (PTO/SB/81) is as follows:								
		The power of attorney is to: Stanislaus Aksman, Reg. No. 28,562; Jennifer A. Albert, Reg. No. 32,012; Thomas E. Anderson, Reg. No. 37,063; David E. Baker, Reg. No. 42,285; Scott D. Balderston, Reg. No. 35,436; Carl L. Benson, Reg. No. 38,378; Thomas Blasey, Reg. No. 33,475; Bradford Blaise, Reg. No. 47,429; Thomas D. Bradshaw, Reg. No. 51,492; J. Robert Brown, Jr., Reg. No. 45,438; Tyler S. Brown, Reg. No. 36,465; Brian M. Buroker, Reg. No. 39,125; Christopher C. Campbell, Reg. No. 37,291; Katherine S. Chang, Reg. No. 40,544; Robin C. Clark, Reg. No. 40,956; Trevor Q. Coddington, Reg. No. 46,633; Christopher J. Cuneo, Reg. No. 42,450; Ryan S. Davidson, Reg. No. 51,596; Patrick A. Doody, Reg. No. 35,022; Dinnatia J. Doster, Reg. No. 45,268; Kevin T. Duncan, Reg. No. 41,495; Kevin J. Dunleavy, Reg. No. 32,024; David D'Zurilla, Reg. No. 36,776; Ozzie A. Farres, Reg. No. 43,606; Nancy J. Flint, Reg. No. 46,704; Christopher J. Forstner, Reg. No. 46,049; James G. Gatto, Reg. No. 32,694; George Georgellis, Reg. No. 40,309; Nancy J. Jensen, Reg. No. 40,650; David M. Huntley, Reg. No. 40,309; Nancy J. Jensen, Reg. No. 45,913; Herbert V. Kerner, Reg. No. 40,309; Nancy J. Jensen, Reg. No. 41,548; Charles B. Lobsenz, Reg. No. 37,857; Tyler Maddry, Reg. No. 40,074; J. Michael Martinez, Reg. No. 37,178; David H. Milligan, Reg. No. 42,893; James R. Miner, Reg. No. 40,444; Bryan F. Moore, Reg. No. 52,044; Devin S. Morgan, Reg. No. 45,562; Kerry H. Owens, Reg. No. 52,044; Devin S. Morgan, Reg. No. 45,562; Kerry H. Owens, Reg.								



BOX PATENT APPLICATION August 28, 2003 Page 5

No. 37,412; Jeffrey T. Perez, Reg. No. 52,110; Michael P.F. Phelps, Reg. No. 48,654; John P. Pinkerton, Reg. No. 28,746; Laurence H. Posorske, Reg. No. 34,698; Matthew J. Pryor, Reg. No. 45,278; Andrew J. Ririe, Reg. No. 45,597; Stephen T. Schreiner, Reg. No. 43,097; Robert M. Schulman, Reg. No. 31,196; Thomas J. Scott, Jr., Reg. No. 27,836; Yisun Song, Reg. No. 44,487; Shelley L. Spalding, Reg. No. 51,971; Henry C. Su, Reg. No. 37,738; Rodger L. Tate, Reg. No. 27,399; Raphael A. Valencia, Reg. No. 43,216; René Vazquez, Reg. No. 38,647; Samson Vermont, Reg. No. 42,202; Robert J. Ward, Reg. No. 28,746; and Scott F. Yarnell, Reg. No. 45,245.

- Please remove as power of attorney: Scott D. Balderston, Reg. No. 35,436; Thomas Blasey, Reg. No. 33,475; Bradford Blaise, Reg. No. 47,429; Tyler S. Brown, Reg. No. 36,465; Dinnatia J. Doster, Reg. No. 45,268; Kevin J. Dunleavy, Reg. No. 32,024; David D'Zurilla, Reg. No. 36,776; James G. Gatto, Reg. No. 32,694; George Georgellis, Reg. No. 43,632; David M. Huntley, Reg. No. 40,309; Steven P. Klocinski, Reg. No. 39,251; Charles B. Lobsenz, Reg. No. 37,857; Devin S. Morgan, Reg. No. 45,562; Kerry H. Owens, Reg. No. 37,412; Matthew J. Pryor, Reg. No. 45,278; Stuart I. Smith, Reg. No. 42,159; Henry C. Su, Reg. No. 37,738; Raphael A. Valencia, Reg. No. 43,216; and René Vazquez, Reg. No. 38,647.
- \boxtimes Please add as power of attorney: Stanislaus Aksman, Reg. No. 28,562; Jennifer A. Albert, Reg. No. 32,012; Thomas E. Anderson, Reg. No. 37,063; David E. Baker, Reg. No. 42,285; Carl L. Benson, Reg. No. 38,378; Thomas D. Bradshaw, Reg. No. 51,492; J. Robert Brown, Jr., Reg. No. 45,438; Brian M. Buroker, Reg. No. 39,125; Christopher C. Campbell, Reg. No. 37,291; Katherine S. Chang, Reg. No. 40,544; Robin C. Clark, Reg. No. 40,956; Trevor Q. Coddington, Reg. No. 46,633; Christopher J. Cuneo, Reg. No. 42,450; Ryan S. Davidson, Reg. No. 51,596; Patrick A. Doody, Reg. No. 35,022; Kevin T. Duncan, Reg. No. 41,495; Ozzie A. Farres, Reg. No. 43,606; Nancy J. Flint, Reg. No. 46,704; Christopher J. Forstner, Reg. No. 46,049; Charles F. Hollis, III, Reg. No. 40,650; Nancy J. Jensen, Reg. No. 45,913; Herbert V. Kerner, Reg. No. 42,721; Robert C. Lampe, III, Reg. No. 51,914; Jonathan D. Link, Reg. No. 41,548; Tyler Maddry, Reg. No. 40,074; J. Michael Martinez, Reg. No. 37,178; David H. Milligan, Reg. No. 42,893; James R. Miner, Reg. No. 40,444; Bryan F. Moore, Reg. No. 52,044; Jeffrey T. Perez, Reg. No. 52,110; Michael P.F. Phelps, Reg. No. 48,654; John P. Pinkerton, Reg. No. 28,746; Laurence H. Posorske, Reg. No. 34,698; Andrew J. Ririe, Reg. No. 45,597; Stephen T. Schreiner, Reg. No. 43,097; Robert M. Schulman, Reg. No. 31,196; Thomas J. Scott, Jr., Reg. No. 27,836; Yisun Song, Reg. No. 44,487; Shelley L. Spalding, Reg. No. 51,971; Rodger L. Tate, Reg. No. 27,399;



August 28, 2003 Page 6

Enclosures

Samson Vermont, Reg. No. 42,202; Robert J. Ward, Reg. No. 28,746; and Scott F. Yarnell, Reg. No. 45,245.
A check in the amount of \$ is enclosed. In the event any variance exists between the amount enclosed and the Patent Office charges, please charge or credit any such variance to Deposit Account No. 50-0206 .
The U.S. Patent and Trademark Office is hereby authorized to charge any variance between the amount enclosed and the Patent Office charges to Deposit Account No. 50-0206
Respectfully submitted,
By: David H. Milligan Registration No. 42,893

					Complete If Known							
FEE TRANSMITTAL					Application No.				To Be Assigned			
	Filing Date				Α	August 28, 2003						
BOX PATE	ION	First Named Inventor				К	Kenju MIURA					
				Exa	Examiner Name			Т	To Be Assigned			
				Gro	oup Ar	t Unit		T	o Be As	signed		
Total Amount Of Paym	ent	(\$) 918.00		Atto	orney	Docket N	Vo.	5	8777.00	00013		
METHOD OF	PAY	MENT (check	one)	FEE CALCULATION (continued)								
Trademark (Office	e United States is hereby authors	orized to	3. ADDITIONAL FEES Fee Description Fee Paid								
		ees and credit sit Account N				harge - late	e filing fee	or oa	th	\$		
		nton & William			Surcl	harge - late r sheet				\$		
						-Month E	xtension	of Time	e	\$		
					Notic	e of Appea	al			\$		
					Filing	Brief in S	upport of	Appea	ı	\$		
		The Director o				est for Ora	_			\$		
authorized t	char	l Trademark Of ge any variand	e between			y Issue Fee cation Fee			ncluding	\$		
		sed and the Pa		Design Issue Fee \$								
the name of	Hunto	on & Williams,	1900 K	☐ Plant Issue Fee \$								
Street, N.W. 20006-1109		e 1200, Washir	ngton, D.C.	☐ Petition to Commissioner \$								
20005-1109	•			☐ Petition to Revive (Unavoidable) \$								
L				☐ Petition to Revive (Unintentional) \$								
FE	E CALC	CULATION		Petitions Related to Provisional \$ Applications								
1. Basic Filing X Fee	Lar	rge Entity	Small Entity	Submission of Information Disclosure \$ Statement								
	Utility Filing Fee \$ 750.00 Design Filing Fee \$ Plant Filing Fee \$					☐ Filing Submission After Final Rejection \$						
						Recording Each Patent Assignment Per \$ Property						
Plant Filing						Filing Request for Reexamination					\$	
	Reissue Filing Fee \$ Provisional Filing Fee \$						Other (specify)					
2. EXTRA CLAIMS FE	ES											
			CLAIMS AS	AME	NDED							
	Highest Numbe						Rate	•				
For	For Number Present Paid For			E	Extra	Large I			I Entity		nount	
TOTAL CLAIMS		20 F	20	+	0	x \$ 18		x \$				
INDEPENDENT CLAIMS		5 MS	3	2 x \$ 84.00 x \$ 42.00 \$168.00								
MULTIPLE DEPENDENT CLAIMS TOTAL EXTRA CLAIMS FEES					\$ 280.00 \$ 140.00 \$.00 \$168.00							
SUBMITTED BY									Complet	e (if appli		
Typed or Printed Name David H. Milligan ₪								42,893				
Signature ////////////////////////////////////					Date August 28, 2003				L			
					<u> </u>							